Epex Zinkstaub 3E750

Series 3E750 · Low-solvent 2K epoxy zinc-dust primer with high corrosion protection (acc. to TL/TP-KOR sheet 87)

01 PRODUCT DESCRIPTION

Epex zinc dust 3E750 is a two-component, low-solvent zinc-dust epoxy primer with excellent corrosion protection properties for blast-cleaned steel surfaces. Its high zinc-dust content provides active cathodic corrosion protection and forms a load-bearing base coat for subsequent topcoats. The product is formulated in accordance with TL/TP-KOR steel structures, sheet 87, and can be economically applied by brush and by airless and air spraying.

02 PRODUCT PROPERTIES

Binder system	Epoxy resin
Hardener system	Epex Hardener 7E750-0010
Adjustment thinner	EP Thinner 5E403
Cleaning thinner	EP Thinner 5E403
Characteristics	Low solvent · Excellent corrosion protection
Color shade	Zinc grey
Shelf life	12 months in the unopened original container at +4 °C to +40 °C. Protect from frost and moisture.
Approvals and specifications	BAW approval for area Im 1 (use under high mechanical loads) In accordance with TL/TP-KOR steel structures, sheet 87

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C *1	Approx. 3.25 g/cm³	Approx. 0.99 g/cm³	Approx. 2.85 g/cm³
VOC content · IE Directive 2010/75/EU *1	Approx. 304 g/l	Approx. 545 g/l	Approx. 315 g/l
Solid content (wt.-%) · SDS *1	Approx. 90.8 %	Approx. 45.0 %	Approx. 88.6 %
Viscosity · DIN EN ISO 2555 / ISO 2431 · +20 °C	Approx. 3,500 mPas	Approx. 30 s (4 mm DIN)	Thixotropic

*1 *Depending on color shade*

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03 APPLICATION

The following information may vary depending on the application. Please contact your direct contact person for more detailed information.

Substrate	Steel (further substrates on request)
Surface preparation	Ensure sufficient load-bearing capacity before application. **Steel:** Surface preparation to EN ISO 12944-4. Free of weld spatter, pores, laps, burrs, grease, oils and dirt. Blast-clean to Sa 2½, mean roughness Rz approx. 50–70 µm (G or operating mix GS).
Mixing ratio	100 : 6 by weight
Theoretical consumption	Approx. 340 g/m² at approx. 70 µm DFT
Application method	Brush Airless / air spraying
Application conditions	**Air temperature** min. +10 °C **Relative humidity** max. 85 % **Dew point** min. 3 °C below surface temperature
Working time[*2]	Approx. 8 h
Recoating interval (with itself)[*2]	Min. 12 h | max. 48 h
DRYING[*2]	
Dust-dry (TG 1)	Approx. 15 min
Fully dried (TG 7)	Approx. 2 h
Fully cured (mech. & chem.)	Approx. 7 days

[*2] *Values are based on laboratory measurements at +20 °C. Lower temperatures slow down drying; higher temperatures accelerate it.*

04 NOTE

This product data sheet supersedes all previously published product data sheets. The information contained herein is based on practical experience under standard conditions and assumes proper storage and processing. Substrates, materials and working conditions may vary. Therefore, no warranty or liability can be derived from the information contained in this document or from verbal consultation. It is the buyer's responsibility to verify the product's suitability for the intended use. Preliminary trials are recommended. The relevant legal regulations, the leaflets of the BG RCI and the accident prevention regulations of the responsible employers' liability insurance association must be observed. In all other respects, our General Terms and Conditions of Sale and Delivery apply.

MODIFIED BY
20.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY
20.08.2026 – Stefan Eisenmenger, Product Management